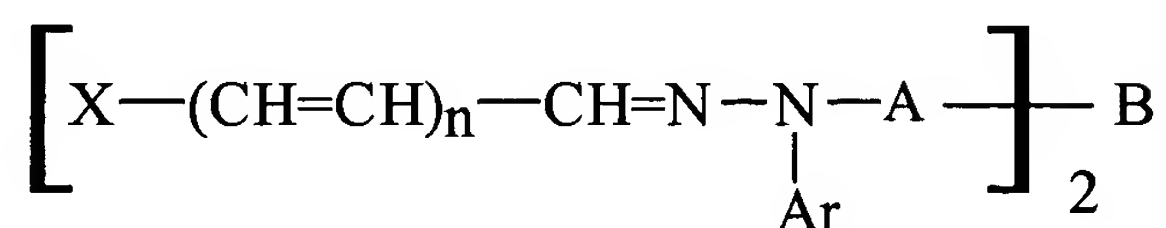


CLAIMS

What is claimed is:

1. An organophotoreceptor comprising:

5 (a) a charge transport compound having the formula



where n is an integer from 0 to 1;

X is an (N,N-disubstituted)arylamine group;

Ar is an aryl group or a heterocyclic group;

10 A is a first linking group with the formula $-(CH_2)_p-$ which can be branched or linear, where p is an integer from 3 to 20 inclusive and where one or more methylene groups can be optionally replaced by O, S, a carbonyl group, urethane, urea, an ester group, a $-NR_{16}$ group, a CHR_{17} group, or a $CR_{18}R_{19}$ group where R_{16} , R_{17} , R_{18} and R_{19} are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, an alkaryl group, an aryl group, or part of a
15 ring; and

B is a second linking group having the formula $-Q-Z-Q'-$, where Q and Q' are, independently, O, S or NR_1 , where R_1 is an H, an alkyl group, an alkaryl group or an aryl group, and Z comprises a heterocyclic group;

(b) a charge generating compound; and

20 (c) an electrically conductive substrate over which the charge transport compound and the charge generating compound are located.

2. An organophotoreceptor according to claim 1 wherein said organophotoreceptor is in the form of a flexible belt.

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3. An organophotoreceptor according to claim 1 wherein said organophotoreceptor is in the form of a drum.

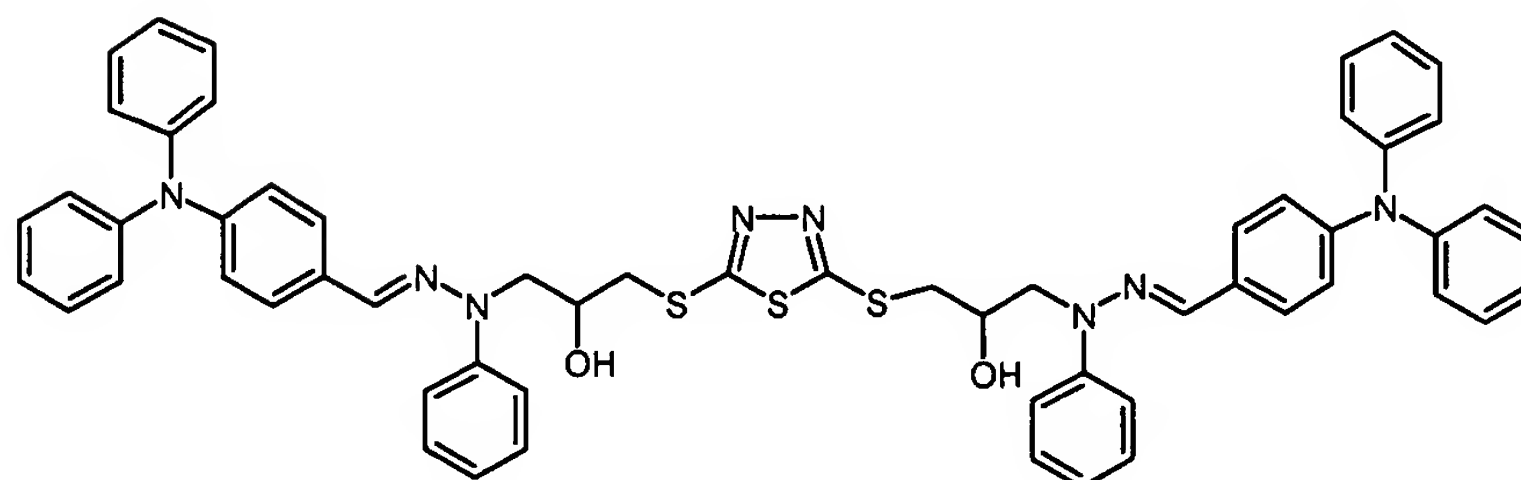
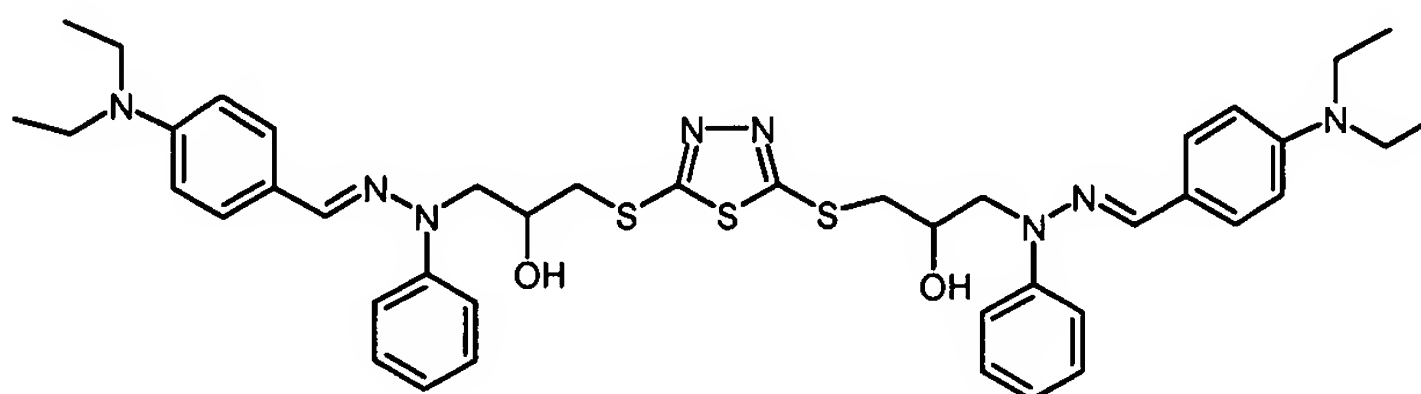
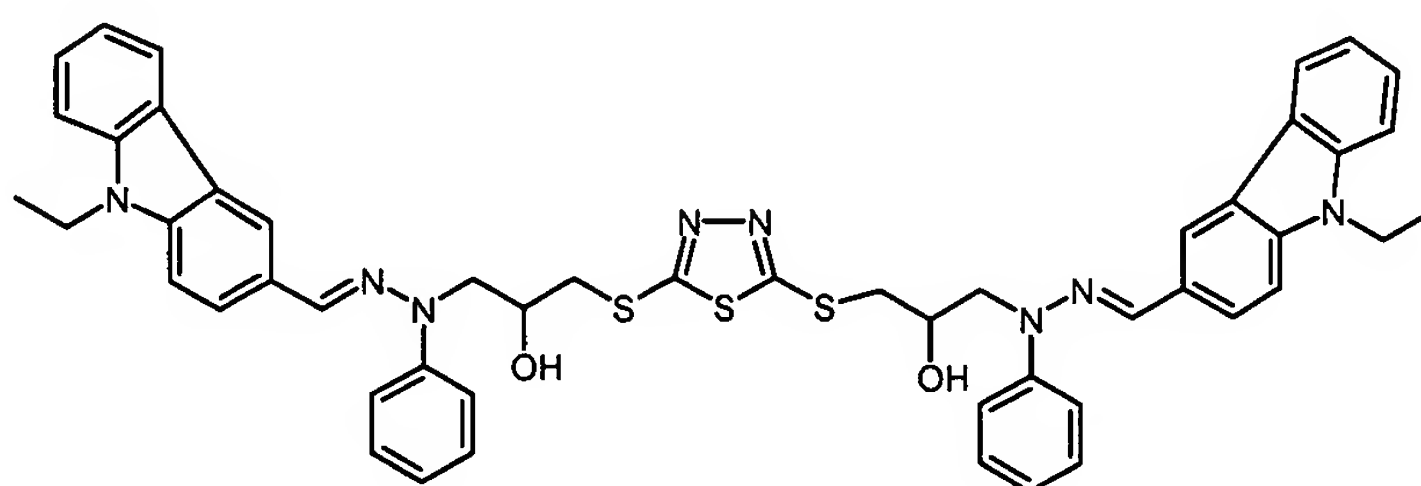
4. An organophotoreceptor according to claim 1 wherein said organoreceptor further comprises an electron transport compound.

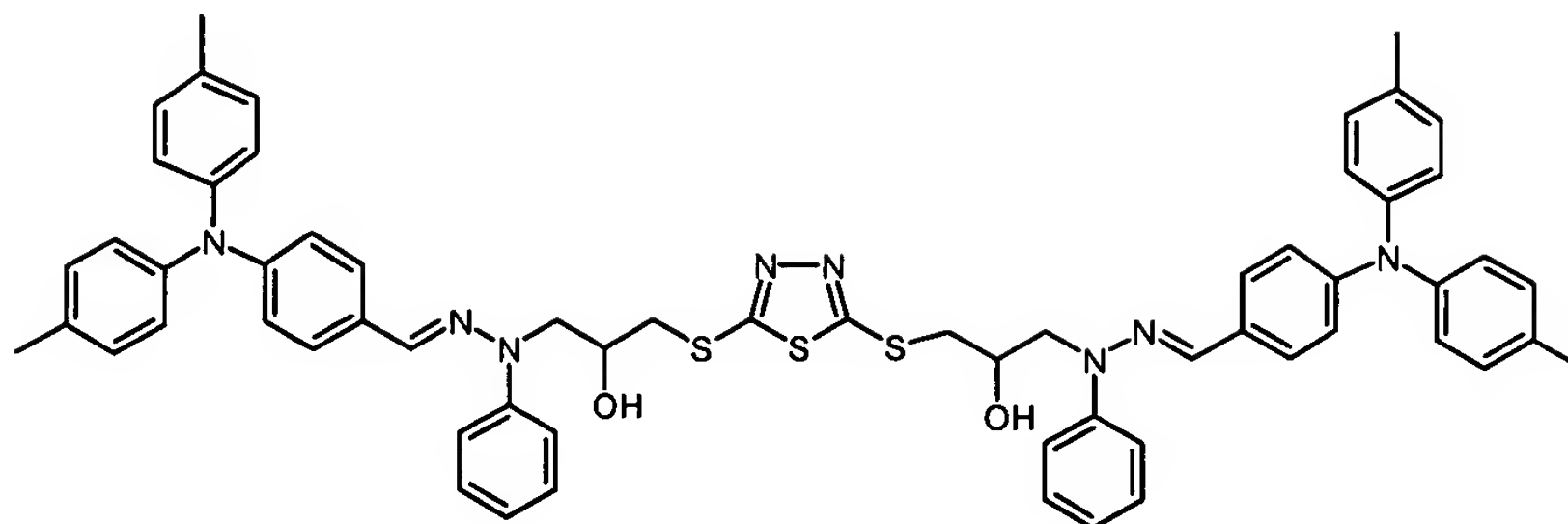
5. An organophotoreceptor according to claim 1 comprising:

5 (a) a charge transport layer comprising said charge transport compound and a polymeric binder; and

(b) a charge generating layer comprising said charge generating compound and a polymeric binder.

10 6. An organophotoreceptor according to claim 1 wherein said charge transport compound is selected from the group consisting of the following formulas:



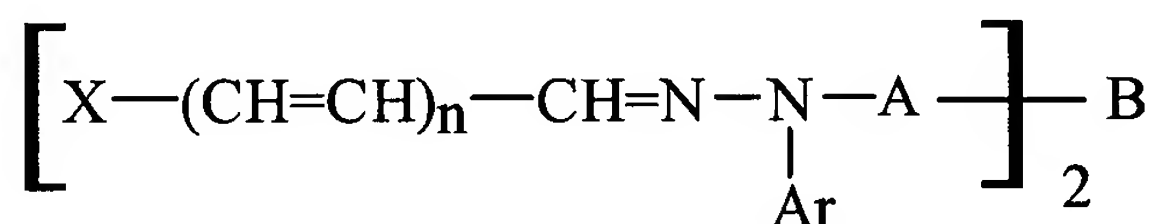


7. An electrophotographic imaging apparatus comprising:

5 (a) a plurality of support rollers; and

(b) an organophotoreceptor operably coupled to said support rollers with motion of said support rollers resulting in motion of said organophotoreceptor, said organophotoreceptor comprising:

(i) a charge transport compound having the formula



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where n is an integer from 0 to 1;

X is an (N,N-disubstituted)arylamine group;

Ar is an aryl group or a heterocyclic group;

A is a first linking group with the formula $-(CH_2)_p-$ which can be branched or linear,

15 where p is an integer from 3 to 20 inclusive and where one or more methylene groups can be optionally replaced by O, S, a carbonyl group, urethane, urea, an ester group, a $-NR_{16}$ group, a CHR_{17} group, or a $CR_{18}R_{19}$ group where R_{16} , R_{17} , R_{18} and R_{19} are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, an alkaryl group, an aryl group, or part of a ring; and

20 B is a second linking group having the formula $-Q-Z-Q'-$, where Q and Q' are, independently, O, S, or NR_1 , where R_1 is an H, an alkyl group, an alkaryl group or an aryl group, and Z comprises a heterocyclic group;

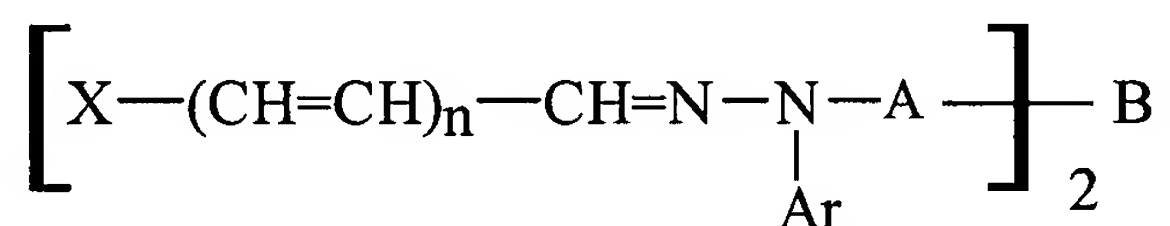
(ii) a charge generating compound; and

(iii) an electrically conductive substrate over which said charge transport compound and said charge generating compound are located.

8. An electrographic imaging apparatus according to claim 7 wherein said organophotoreceptor further comprises an electron transport compound.

9. An electrophotographic imaging apparatus according to claim 7 wherein said electrophotographic imaging apparatus further comprises a liquid toner dispenser.

10. An electrophotographic imaging process comprising:
(a) applying an electrical charge to a surface of an organophotoreceptor comprising:
(i) a charge transport compound having the formula



where n is an integer from 0 to 1;

X is an (N,N-disubstituted)arylamine group;

Ar is an aryl group or a heterocyclic group;

A is a first linking group with the formula $-(\text{CH}_2)_p-$ which can be branched or linear, where p is an integer from 3 to 20 inclusive and where one or more methylene groups can be optionally replaced by O, S, a carbonyl group, urethane, urea, an ester group, a $-\text{NR}_{16}$ group, a CHR_{17} group, or a $\text{CR}_{18}\text{R}_{19}$ group where R_{16} , R_{17} , R_{18} and R_{19} are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, an alkaryl group, an aryl group, or part of a ring; and

B is a second linking group having the formula $-\text{Q}-\text{Z}-\text{Q}'-$, where Q and Q' are, independently, O, S, or NR_1 is an H, an alkyl group, an alkaryl group or an aryl group and Z comprises a heterocyclic group;

(ii) a charge generating compound; and

(iii) an electrically conductive substrate over which said charge transport compound and said charge generating compound are located;

(b) imagewise exposing said surface of said organophotoreceptor to radiation to dissipate charge in selected areas and thereby form a pattern of charged and uncharged areas on said surface;

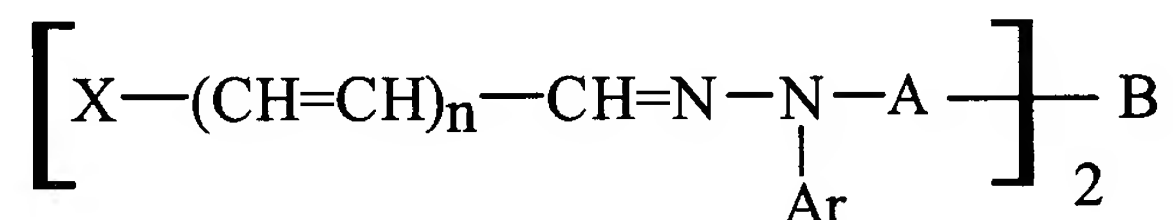
(c) contacting said surface with a toner to create a toned image; and

5 (d) transferring said toned image to a substrate.

11. An electrophotographic imaging process according to claim 10 wherein the toner is a liquid toner comprising a dispersion of colorant particles in an organic liquid.

10 12. An electrophotographic imaging process according to claim 10 wherein said organophotoreceptor further comprises an electron transport compound.

13. A charge transport compound having the formula



15 where n is an integer from 0 to 1;

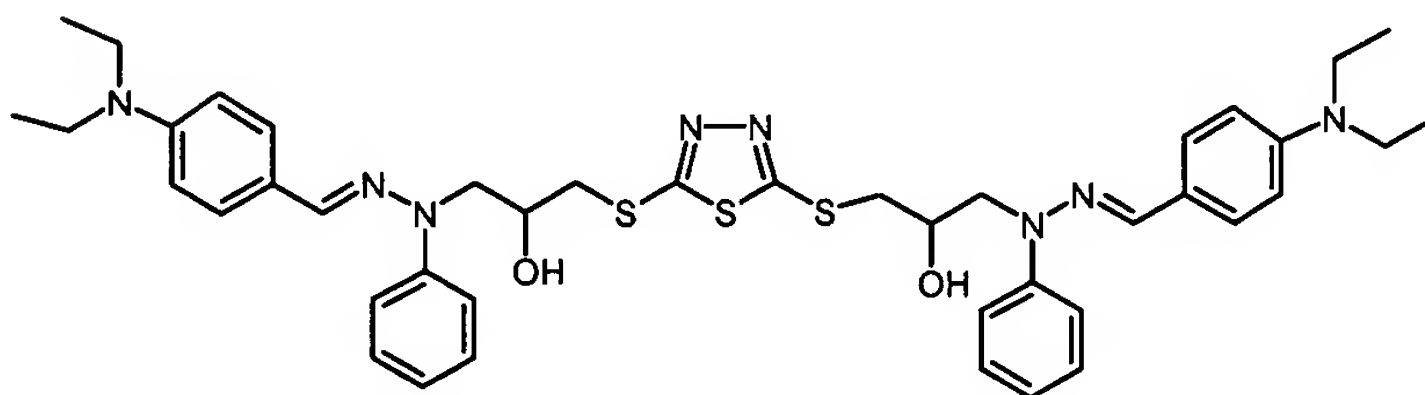
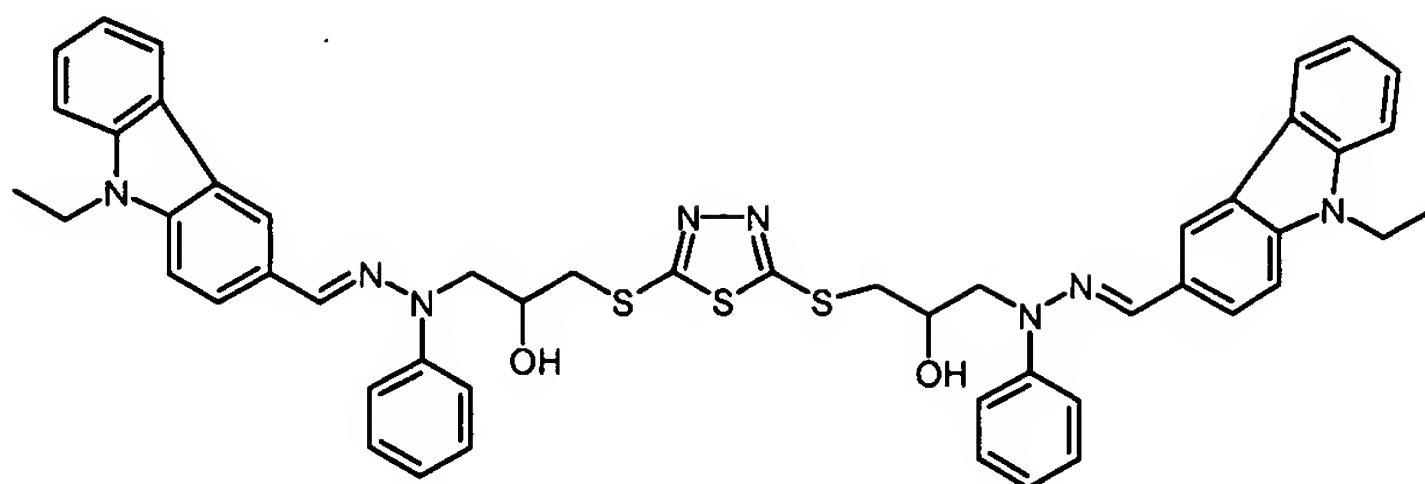
X is an (N,N-disubstituted)arylamine group;

Ar is an aryl group or a heterocyclic group;

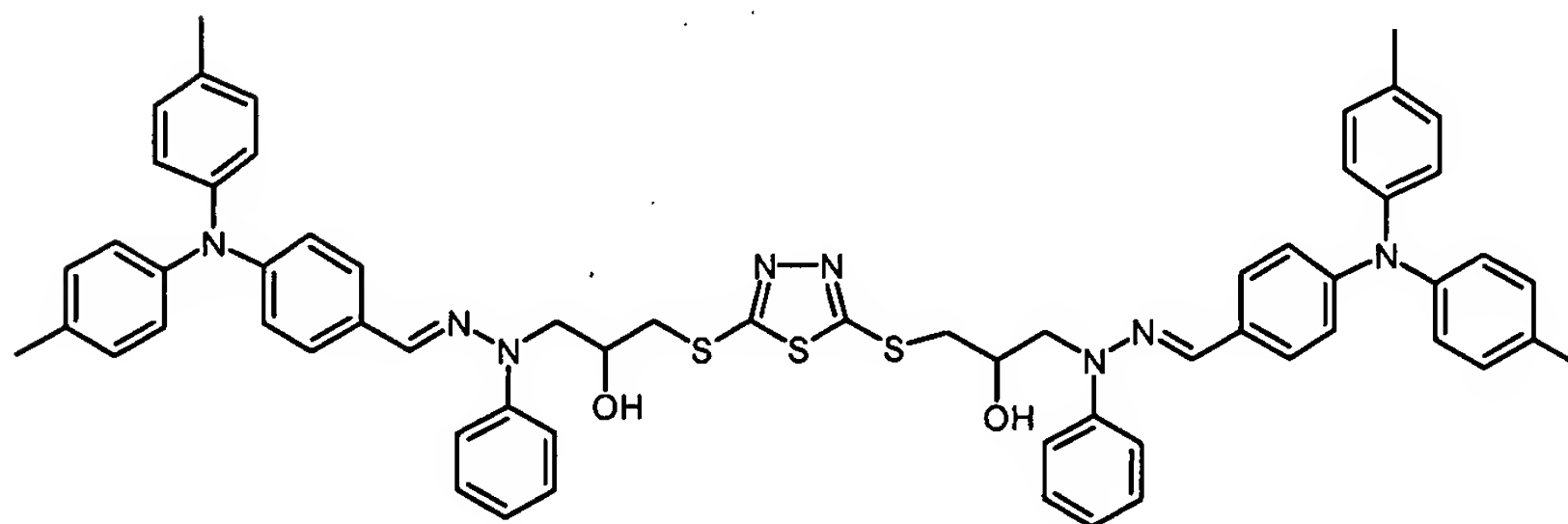
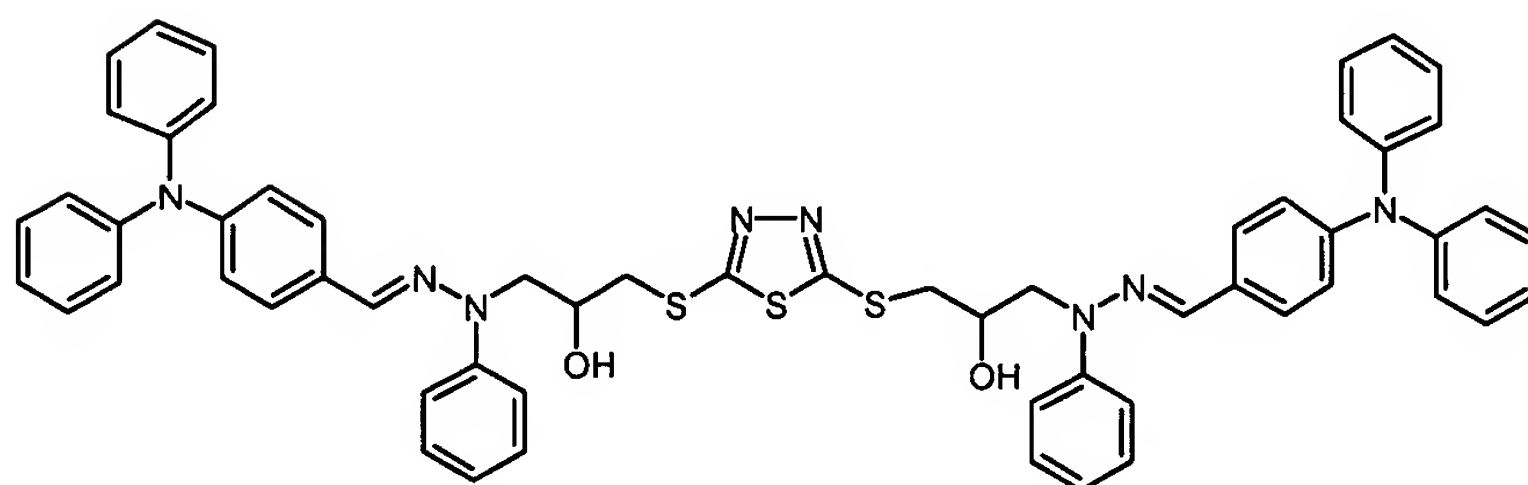
A is a first linking group with the formula $-(\text{CH}_2)_p-$ which can be branched or linear, where p is an integer from 3 to 20 inclusive and where one or more methylene groups can be optionally replaced by O, S, a carbonyl group, urethane, urea, an ester group, a $-\text{NR}_{16}$ group, a CHR_{17} group, or a $\text{CR}_{18}\text{R}_{19}$ group where R_{16} , R_{17} , R_{18} and R_{19} are, independently, H, hydroxyl, thiol, an amine group, an alkyl group, an alkaryl group, an aryl group, or part of a ring; and

20 B is a second linking group having the formula $-\text{Q}-\text{Z}-\text{Q}'-$, where Q and Q' are, independently, O, S, or NR_1 , where R_1 is an H, an alkyl group, an alkaryl group or an aryl group, and Z comprises a heterocyclic group.

14. A charge transport compound according to claim 13 wherein said charge transport compound is selected from the group consisting of the following formulas:



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15. A charge transport compound according to claim 13 wherein first linker A comprises –
CH₂CHOHCH₂–.

16. A charge transport compound according to claim 13 wherein X of said charge transport compound comprises a julolidine group.

5 17. A charge transport compound according to claim 13 wherein X of said charge transport compound comprises a triphenylamine group.

18. A charge transport compound according to claim 13 wherein X of said charge transport compound comprises a carbozole group.

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19. A charge transport compound according to claim 13 wherein $n=0$.

20. A charge transport compound according to claim 13 wherein $Q=Q'=S$.

15 21. A charge transport compound according to claim 13 wherein $Q=Q'=S$ and Z comprises a heterocyclic group comprising sulfur.